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(21)Application number : 03-003764 (71)Applicant : PIONEER ELECTRON
CORP

(22)Date of filing : 17.01.1991 (72)Inventor : MATSUSHITA HAJIME

(54) COLOR DECOMPOSITION AND COMPOSITION OPTICAL SYSTEM

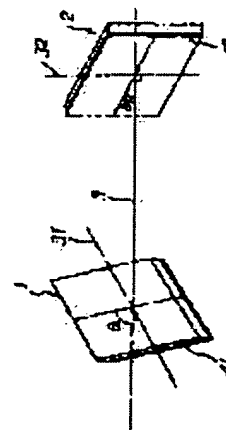
(57)Abstract:

PURPOSE: To offer the color decomposition and composition optical system which reduces astigmatism generated with light transmitted slantingly through a dichroic mirror.

CONSTITUTION: In the color decomposition and composition optical system which is constituted by connecting plural dichroic mirrors successively on the main optical axis 3 of light and decomposes white light into respective color light beams of red, green, and blue and

composes specific color light of the respective color light beams of red, green, and blue, the

dichroic surfaces 41 and 42 of the 1st dichroic mirror 1 and 2nd adjacent dichroic mirror 2 are arranged on the light incidence side of the main optical axis 3, the dichroic mirror 1 is arranged in a plane which contains a 1st axis 31 perpendicular to the main optical axis 3 and slants at a specific angle θ_1 to the main optical axis 3, and the 2nd dichroic mirror 2 is arranged in a plane which



contains a 2nd axis 32 perpendicular to the main optical axis 3 and 1st axis 31 and slants at a specific angle θ_2 to the main optical axis 3.

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